CRESTRON iBT
INTEGRATED BUILDING TECHNOLOGY

CRESTRON Integrated Building Technology

The Crestron Difference

The only complete, fully integrated control solution.

Project teams face an extraordinary challenge to meet the industry's goals for 2030.

Crestron is dedicated to empowering design teams with the tools they need to specify truly integrated building technology.

Crestron provides facility, IT and AV managers with the integrated, IP-based tools to achieve a new standard in efficiency and reporting:

+ Total, seamless integration using Crestron lighting, thermostats, shade control, audio/video distribution, amplifiers, digital video and surround sound processors, camera control and third-party products.
+ Ethernet communications for web-based control and management, including email alerts, from laptops, PCs and mobile devices.
+ Enhanced user experience and control from Crestron touchpanels, keypads and handhelds.
+ Advanced features such as room scheduling, room combining, load shedding, daylight harvesting, and personal workspace control.
+ Total, seamless BMS integration leveraging Crestron lighting, thermostats, shade control, audio/video distribution, digital media and control processors to provide seamless integration with other building systems.

CRESTRON

Totally Integrated Building Control

Crestron delivers complete building management for maximum energy and operational efficiency. Only Crestron can monitor, manage, and control all the technology throughout the entire facility both centrally and globally.

Crestron Green Light® technology provides total environmental control to conserve energy and lower costs by combining automated dimming and daylight harvesting with power switching and load shedding.

Crestron touchpanels and interfaces offer global management of all systems and devices building-wide from a centralized command center, or local control from touchpanels in each room. Monitor and control HVAC, shades, audio/video distribution and presentation systems throughout the building from the same Crestron touchpanel.

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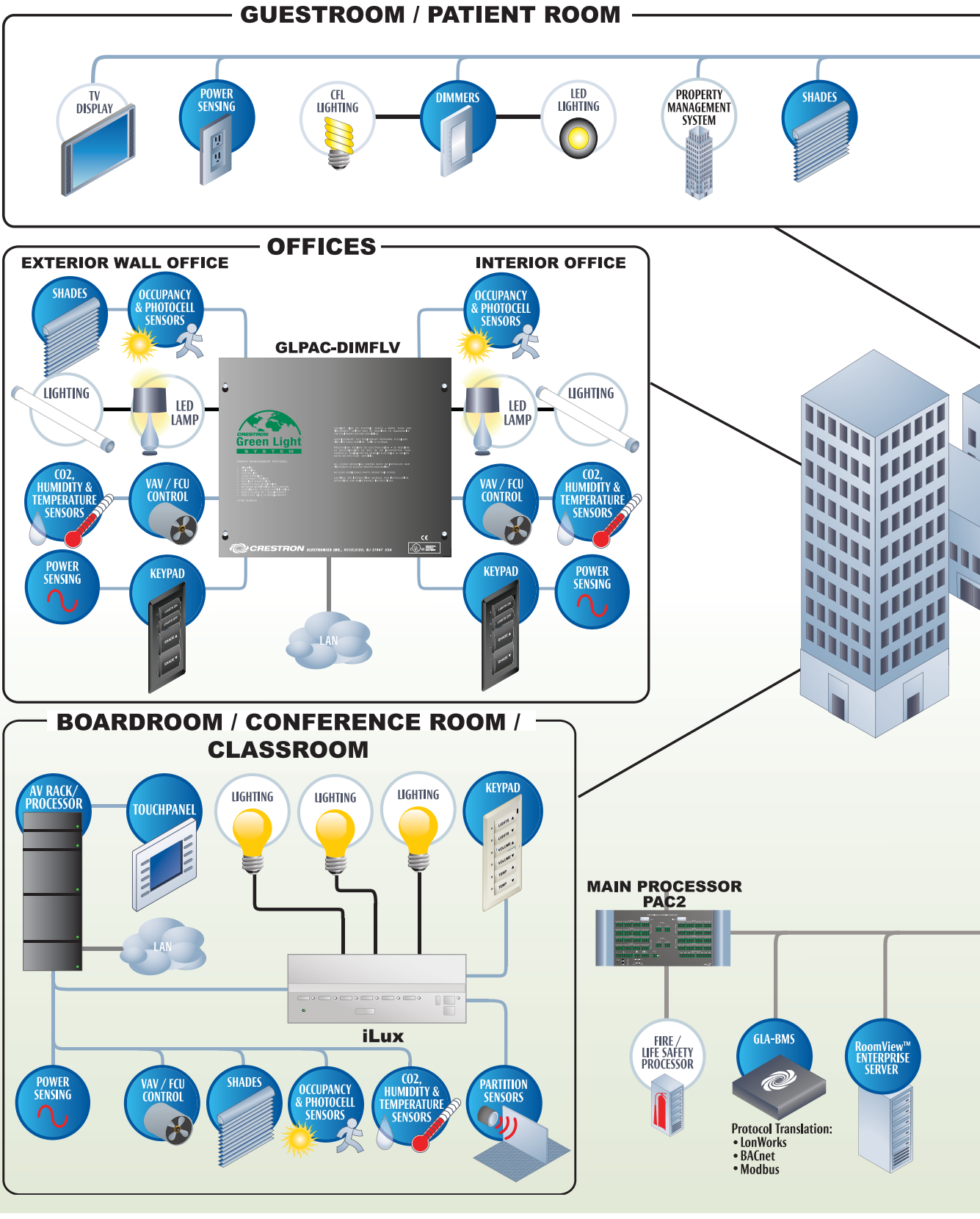
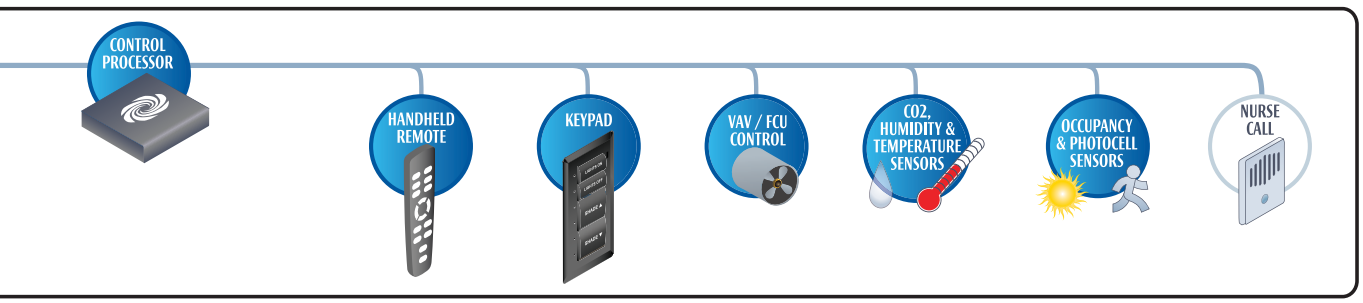
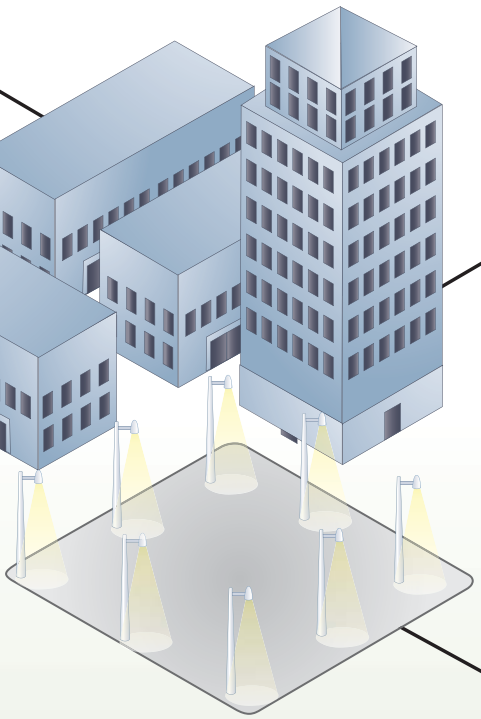
INTEGRATED BUILDING TECHNOLOGY

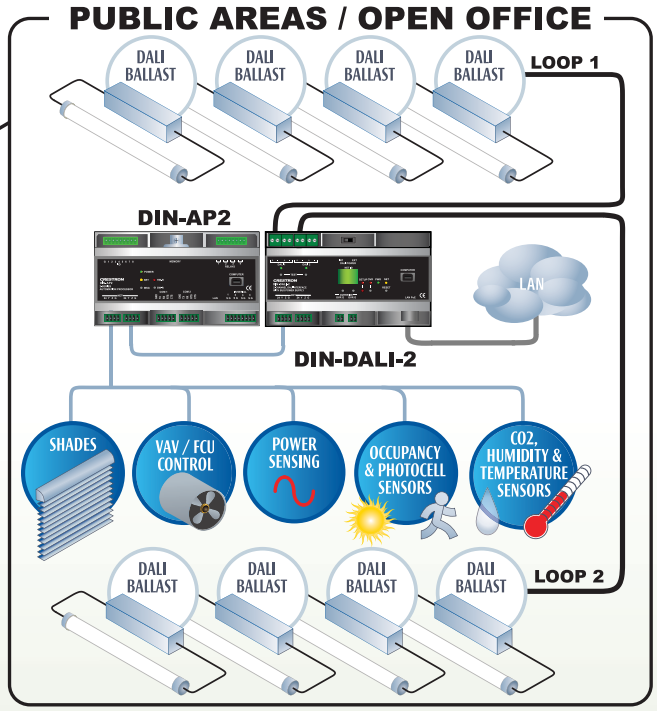
Integrated Building Technology Overview

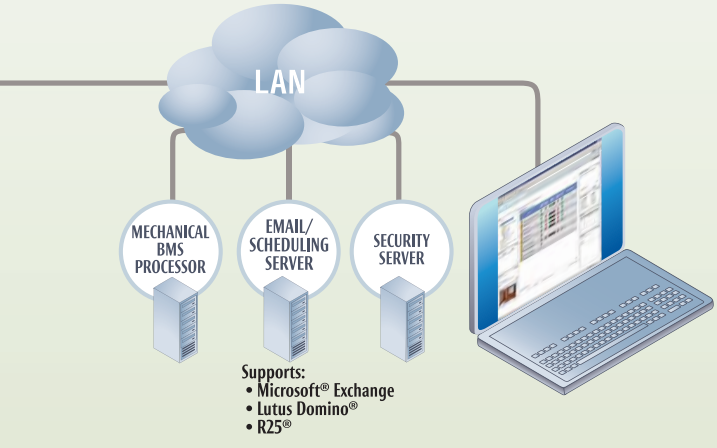


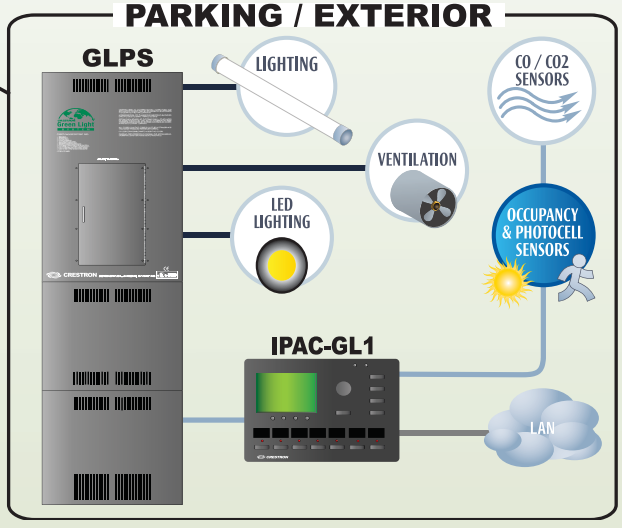
CRESTRON


CONTROL PROCESSOR
HANDHELD REMOTE
KEYPAD
VAV / FCU CONTROL
CO2, HUMIDITY & TEMPERATURE SENSORS
OCCUPANCY & PHOTOCELL SENSORS
NURSE CALL




PUBLIC AREAS / OPEN OFFICE
DALI BALLAST
DALI BALLAST
DALI BALLAST
DALI BALLAST
LOOP 1
DIN-AP2
LAN
DIN-DALI-2
SHADES
VAV / FCU CONTROL
POWER SENSING
OCCUPANCY & PHOTOCELL SENSORS
CO2, HUMIDITY & TEMPERATURE SENSORS
DALI BALLAST
DALI BALLAST
DALI BALLAST
DALI BALLAST
LOOP 2


LAN
MECHANICAL BMS PROCESSOR
EMAIL/ SCHEDULING SERVER
SECURITY SERVER
Supports:
• Microsoft® Exchange
• Lutus Domino®
• R25®


PARKING / EXTERIOR
GLPS
LIGHTING
CO / CO2 SENSORS
VENTILATION
LED LIGHTING
OCCUPANCY & PHOTOCELL SENSORS
IPAC-GL1
LAN

Monitor space and energy usage while managing all the environmental, lighting and AV systems throughout the building.

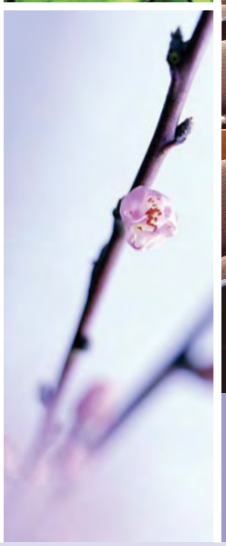
View precise lighting levels, temperature and shade positions in every room graphically and quantitatively from any touchpanel or PC. Monitor and track current and historical energy consumption, and intelligently manage resources.

Monitoring & Management

CRESTRON

Control every light, shade, audio/video source and display device centrally and globally on a single platform.

Ethernet connectivity enables LAN, WAN or Web-based system control and management, and sends email advisories about pre-determined events such as automatic load shedding due to high levels of energy usage.



Managing energy consumption and realizing real cost savings must extend beyond lighting and thermostats.

Significant electrical energy waste results from lighting, AV and IT equipment left on when not in use. Crestron provides the reporting and monitoring tools to dramatically limit this waste and proactively reduce the cost of operations.

Crestron audio-video distribution systems feature sync-sensing to automatically turn off displays and projectors when no active source is detected. Even Crestron touchpanels go “to sleep,” drawing less power when not in use.

CRESTRON

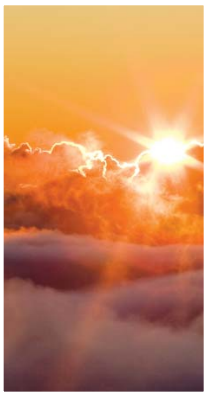
Only Crestron RoomView® enterprise management software provides robust reporting and a single view of every lighting, AV and environmental device throughout a facility.

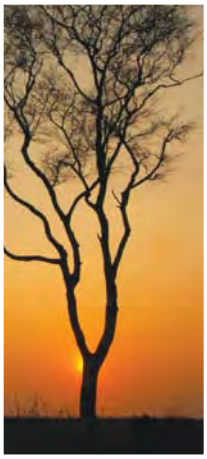
Schedule rooms using Outlook® directly from Crestron touchpanels integrated with Microsoft® Exchange Server.

When a room is scheduled, thermostats can adjust, and lights and AV equipment can automatically turn "ON" prior to the start of the meeting. If the meeting is rescheduled or participants do not arrive, the room becomes "unscheduled" and set points return to power-saving mode.

AV & Room Scheduling

Lighting Systems Management





Crestron Green Light® empowered with RoomView™, provide the most energy efficient, cost-effective solutions by integrating separate environmental systems on a common platform, achieving a synergy that delivers optimal control and savings.

Today's modern commercial buildings incorporate more technology than ever. Lighting control in these facilities is increasingly complex, balancing a variety of requirements such as life safety, energy conservation, comfort, productivity and aesthetics. The need to monitor, manage and control disparate lighting systems such as emergency, task, presentation, architectural and natural light simply and efficiently on a single platform is paramount.

Crestron provides the most robust, efficient and scalable solutions for centralized and distributed commercial lighting systems. Only Crestron seamlessly integrates lighting and shade control with HVAC, security, audio/video distribution and multimedia presentation. Crestron delivers an enhanced user experience through graphic touchpanels, custom keypads and computer control interfaces.

View precise lighting levels, temperature and shade positions in every room graphically and quantitatively from any touchpanel or PC. Monitor and track current and historical energy consumption and cost savings, and intelligently manage resources.

CRESTRON

IBT Solutions for all Markets

Conference Center

Room partitioning and combining is simple with just a tap of a wall mount controller. Retractable walls divide conference and ballroom spaces for scheduled events such as meetings, banquets, corporate presentations and weddings. Web-based control enables managers to monitor room configurations, select preset scenes or create custom configurations directly from the banquet office.

Office Building

Monitor, manage and control all the environmental systems throughout the facility on a single platform to maximize energy and cost savings. Integrated motion detection and occupancy sensors turn lights on in areas only when in use. Use daylight harvesting to optimize the use of natural light, while also managing room temperature, providing energy efficiency and personal comfort while meeting ASHRAE standards.

Hotel Rooms

When a guest registers at the front desk, the proper lighting, shade, and HVAC settings are triggered directly from the property management system. Guests enjoy in-room amenities such as lighting, shade and climate control from a stylish tabletop console or directly from the television. When leaving the room, lights automatically turn off – resulting in significant energy and cost savings.

Education

Use wall keypads and lectern touchpanels to intuitively run the learning environment. Light, shade and HVAC levels adjust for how the room is used and the number of attendees. All of the rooms are centrally monitored by staff that can instantaneously provide remote assistance – improving the level of service while supporting more rooms with less staff.

Industrial and Outdoor Environments

The processor's internal astronomical clock automatically adjusts for sunrise and sunset times on a daily basis, in addition to daylight savings. This enables cobra-head lights in the parking lot to ramp up beginning at dusk to full on at sundown, then slowly dim beginning at sunrise.

Stadiums and Arenas

Monitor and manage all AV resources, lighting, and environmental settings for skyboxes from one user interface. Centrally control digital signage, public address/background music systems and lighting, providing facilities managers with the tools they need to do more with less.

Lighting

Simple one-touch dimming of individual lights and groups of lights puts you in absolute control.

Energy savings are best realized with conditional logic that dynamically responds to environmental conditions. Conditional logic capabilities exist in every Crestron processor at every price point, not just in the top-of-the line series.

This allows projects in every market segment to realize innovative reductions in operating costs.

Set the precise lighting scene for maximum productivity and security while saving energy and money. When turning the lights “ON”, pre-set the maximum level to 90 percent – the only noticeable difference will be on the electric bill.

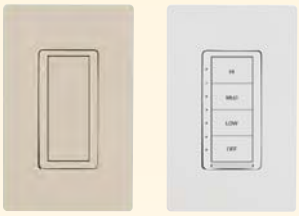
Automation features, such as built-in motion detection and occupancy sensors, turn lights on only when a room is in use, and schedule lights to turn off after business hours to reduce light pollution.

CRESTRON

iLux® Integrated Lighting System

The powerfully simple and intuitive interface controls six lighting circuits, six shade groups, 16 preset scenes and master on/off, accommodates 16 Crestron keypads and shade controllers and optional motion detection. Available in black, white and almond.

Cameo® Dimmers & Switches



Now making a Cameo® appearance are Crestron® in-wall dimmers and switches, modeling the popular, modern look of Cameo keypads. Available in various button layouts and designer colors. Cresnet® and infiNET EX™ technologies bring proven reliability to both wired and wireless versions.

Expansion Modules

iLux expansion units provides control for larger loads and additional load types.

Green Light® Lighting Cabinets

Green Light architectural dimming and power switching panels are available in a variety of sizes and configurations, including main-lug only and feed-through.

DALI Solutions

Crestron DALI solutions are uniquely positioned to save install and commissioning time and money. Small DIN Rail form factor simplifies installation with other Crestron DIN Rail modules.

International Keypads

Crestron has an unmatched line of solutions for international projects as well. Engraving is available in multiple languages to insure a high ease of use.

Decorator Series Keypads

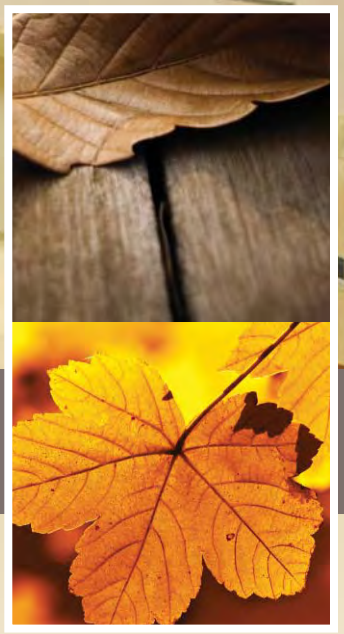
Designed to allow installation with third-party devices. The keypads use readily available standard decorative faceplates.

Designer Series Keypads

An elegant option for any décor. Extra large backlit buttons offer room for custom engraving. Audible feedback plays door chimes, voice prompts and button clicks. Optional faceplate colors and finishes.

Cameo® Keypads

A diverse selection of 10 designer inspired colors and a dramatically reduced footprint – 75% smaller than standard decorative faceplate. Configurable button combinations.

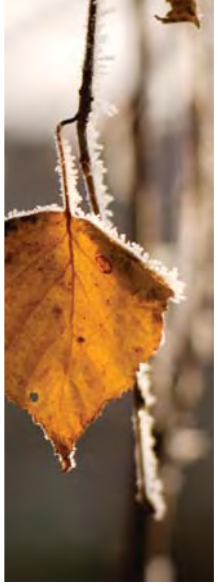


Mechanical Systems & Thermostats

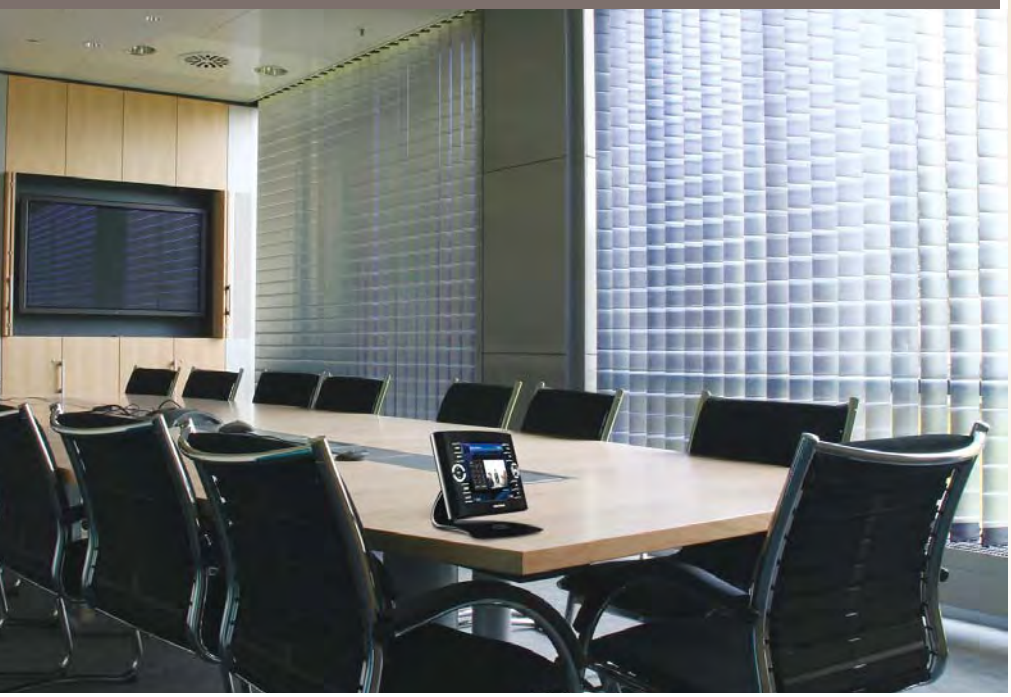
Schedule thermostats to set back the temperature when rooms are not in use, after hours, and during weekends and holidays.

Leveraging BACnet over IP, control rooms or zones independently so the HVAC system is heating or cooling only those areas that are occupied, not the entire building.

CRESTRON



Shades & Drapes



Daylight harvesting uses natural light to illuminate the lobby, hallways, conference rooms and other common areas, using electrical light only when necessary for task or fill lighting.

Schedule shades and drapes to rise when a meeting is scheduled; gently lower toreduce glare when the projector is turned on.

Intelligent control manages all environmental systems to achieve maximum energy savings without compromising comfort or convenience. Balance the need for light with climate control.

Use direct sunlight in the winter to naturally warm a room; lower shades to reduce solar heat gain in the summer to keep the room comfortable without using air conditioning.

Touchpanels

V-Panels

Crestron® V-Panels deliver style and function with exceptional versatility. They are perfectly at home on a table or desktop, flush-mount in a wall or lectern, or custom mounted using 3rd-party VESA accessories. Long-distance, single cable connectivity affords a streamlined appearance and install. V-Panel is the world's only touchpanel control solution to support today's digital HD video sources! Available in white or black.

Wall Mount Touchpanels

8.4" Touchpanel with built-in audio, video and Ethernet. Available in black, white or almond.

Isys® 5.7" Wall Mount Touchpanel. Available in black, white or almond.

3.6" Touchpanel with 10-button keypad. Available in black, white or almond.

4.3" Widescreen Touchpanel with 10-button keypad. Available in black or white.

Handheld Touchpanels and Remotes

Crestron Mobile Pro® for Apple® iPhone or iPod touch®

Crestron Mobile Pro® G for Apple® iPad™

Waterproof RF Wireless Remote

Isys™ Handheld WiFi Touchpanel

Isys™ Handheld infiNET EX™ Touchpanel

Wireless Touchpanels

5.7" Isys™ Touchpanel features a bright, high-contrast color touchscreen and offers an ideal user interface that provides both wired and wireless control.

8.5" WiFi 802.11a/b/g Touchpanel with embedded PC applications for Web browsing, streaming media and email, and built-in audio and video. Optional desktop docking station available.

CRESTRON

The NEW 3 series

3-Series™ Control System

Professional Dual Bus Control System

Dual Bus Control System
with Solutions Card Frame

Compact Control System

Professional Automation Control System

Professional Automation
Mini Control System

DIN Rail 2-Series Automation Processor

MPC Media Presentation Controller™

Integrated Professional Automation Computer

Green Light® Integrated Lighting System

Solutions for all Applications & Markets

Crestron has more than 40 years of experience providing integrated solutions that streamline technology and innovate the way people live and work. Offering the broadest line of hardware and software in the industry, Crestron is the definitive source for centrally and globally controlling, managing and presenting information on a single, integrated network.

+ Corporate
+ Education
+ Government and Military
+ Residential
+ Multi-Dwelling Units
+ Hospitality
+ Heathcare
+ Commercial Lighting
+ Cultural and Event Centers
+ Transportation
+ Houses of Worship
+ Broadcast
+ Stadiums and Arenas
+ Retail

Bates College in Lewiston, ME

The Comcast Building in Philadelphia, PA

CRESTRON

Crestron: the right people, the right solutions, the right partner.

Crestron has evolved well beyond the touchpanel and control system. With the broadest line of hardware and software, Crestron delivers the power and simplicity of integrated solutions, tailored to suit each project. Crestron systems are flexible, reliable, secure and scalable to meet and exceed the needs of an enterprise or university multi-building platform.

With an unparalleled global infrastructure of sales, support and training,Crestron delivers proven, flexible solutions that enable project teams to achieve a higher level of integrated design. You can depend on the dedicated and talented professionals at Crestron to support a project from concept design, through life cycle management of a facility.

State of the Art Manufacturing

More than 40% of annual revenue is allocated for new product research and development.

Crestron delivers the most advanced and reliable products in the world. Our commitment to excellence is anchored by state-of-the-art manufacturing and research and developement facilities.

The Crestron campus in New Jersey spans six expansive buildings, including an Experience Center, manufacturing and warehouse space. The cutting-edge Research Center houses hundreds of hardware and software engineers who are creating the next generation of technology.

A networked distribution center ships products at a moment's notice and the automated production plant features revolutionary robotics and prototyping machines that increase efficiency, minimize development costs and maximize quality assurance.

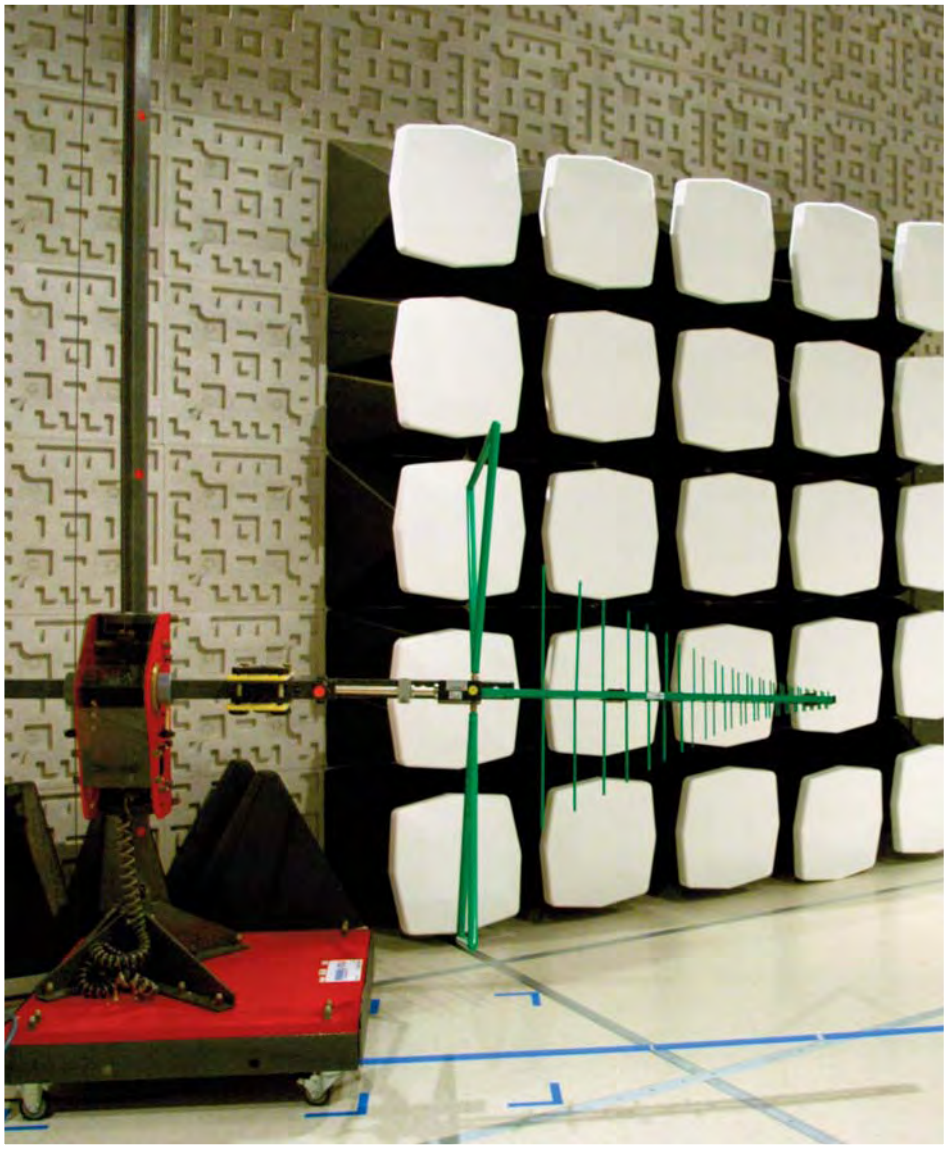
Crestron is constantly improving processes to bring the best products to market faster than any other company.

Implementing the highest quality control standards ensures that every Crestron product has undergone the most intense and extensive testing procedures. All Crestron products receive UL, CE and FCC certification for home and office use.

Crestron is also dedicated to the green initiative, providing the most energy efficient and environmentally safe systems on the planet.

As the global leader in advanced control and automation technology for commercial and residential applications, Crestron develops products and solutions that are RoHS compliant and conform to ASHRAE, LEED and California Title 24 standards.

The FCC Compliance Lab in the Crestron Research Center tests for RF range and interference from wireless devices. Every Crestron product is engineered to exceed FCC certification requirements.

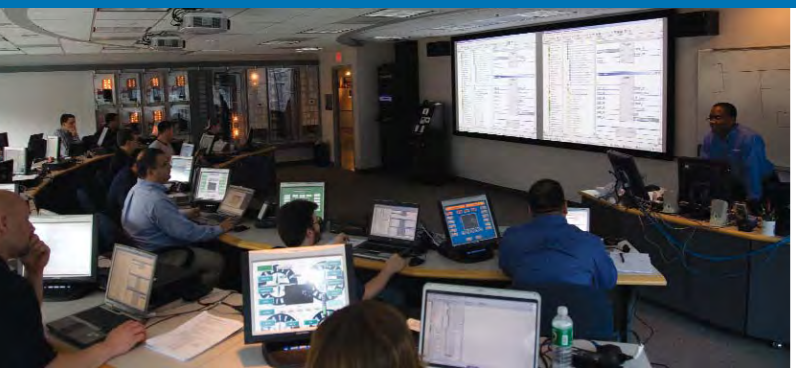


Compliance with Worldwide Standards

Crestron's manufacturing processes achieve the highest standards of excellence.

Global Presence Local Support

The award-winning Crestron True Blue Support Team is an unparalleled group of dedicated professionals who are always on call. True Blue Support is a global infrastructure of more than 400 elite technicians, engineers and customer support representatives. With dozens of worldwide offices, a Crestron representative can be on site at a moment's notice.



crestron TECHNICAL INSTITUTE

There are more than 50 state-of-the-art CTI training centers on six continents, conducting hundreds of courses each year.

Crestron offers a variety of system design and installation courses, programming certification and industry training to ensure that CTI graduates are the most knowledgeable and proficient in the world. Through a combination of classroom instruction, hands-on experience and online classes, Crestron partners are always ahead of the curve.

CRESTRON

In addition to our world headquarters in Rockleigh, New Jersey, there are offices worldwide serving over 90 countries.

North America

Crestron Headquarters	Rockleigh, New Jersey
Crestron Mid-Atlantic	Reston, Virginia
Crestron Midwest	Arlington Heights, Illinois
Crestron West	Cypress, California
Crestron Mountain States	Denver, Colorado
Crestron Las Vegas	Las Vegas, Nevada
Crestron Phoenix	Phoenix, Arizona
Crestron West	San Rafael, California
Crestron South	Roswell, Georgia
Crestron Orlando	Maitland, Florida
Crestron Fort Lauderdale	Fort Lauderdale, Florida
Crestron Southwest	Flower Mound, Texas
Crestron Canada	Mississauga, Ontario
Crestron Canada	Vancouver, British Columbia

International

Crestron's international sales offices are owned and operated by Crestron staff and are all focused on the success of selling and supporting Crestron products. This unique philosophy for international distribution results in superior control and consistent support of the Crestron product line.

Bangalore	Guangzhou	Macau	Paris
Barcelona	Hong Kong	Marbella	Sao Paulo
Beijing	Jeddah	Matsue City	Seoul
Brussels	Kuala	Mexico City	Shanghai
Chengdu	Livingston	Milan	Singapore
Dubai	London	Moscow	Sydney
Dublin	Lumpur	Munich	Tokyo

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